

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10544	430/5.ccls.	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:22
L2	325	216/12.ccls. not 1	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:22
L3	591780	mask or photomask or reticle	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:22
L4	26856	3 near3 (phase or phased or phasing or shift or shifter or shifted or shifting) or \$3PSM	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:23
L5	965	4 same ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper)	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:24
L6	858	5 same (process or processing or processed or method or manufacture or manufacturing or manufactured or form or formed or forming or made or make or making or step)	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:24

L7	220	6 and (4 and ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) and (process or processing or processed or method or manufacture or manufacturing or manufactured or form or formed or forming or made or make or making or step)).clm.	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:25
L8	2807	4 same (contact or hole)	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:26
L9	1148	4 same (auxiliary or assist or assisting or assisted or optical proximity or "OPC" or subresolution or subresolve or subresolved or subresolving or nonresolution or nonresolve or nonresolved or nonresolving or subprint or subprinted or subprinting or nonprint or nonprinted or nonprinting or (sub or non or "not") (resolution or resolve or resolved or resolving or print or printed or printing)) near3 (pattern or hole or opening or feature or structure or component or shape or element)	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:27
L10	357	8 and 9	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:28
L11	8	10 and 7	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:28
L12	47	(1 or 2) and 7 and (8 or 9) not 11	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:29

L13	35909	(etchant or etch or etching or etched) same (dry or gas or gaseous or vapor or vaporous or plasma) same (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4)	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:31
L14	204	13 same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating) same (chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?)	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:31
L15	12	(1 or 2) and 7 and 14 not 11 not 12	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:32
L16	23	(1 or 2) and 7 and 13 same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating or chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?) not 11 not 12 not 15	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:34
L17	5	(1 or 2) and 6 same 14 not 11 not 12 not 15 not 16	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:35

L18	1	(1 or 2) and 5 same 14 not 11 not 12 not 15 not 16 not 17	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:35
L19	4	(1 or 2) and 5 same (dry or gas or gaseous or vapor or vaporous or plasma) same (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating or chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi". sub."?) not 11 not 12 not 15 not 16 not 17 not 18	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:39
L20	1	(Suda-Hideki).in. and (Hoya).as. and (1 or 2) and 5 not 11 not 12 not 15 not 16 not 17 not 18 not 19	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:40
L21	10	((Suda-Hideki).in. or (Hoya).as.) and (1 or 2) and 5 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:41
L22	4	((Suda-Hideki).in. or (Hoya).as.) and 5 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:42
L23	1	9 and 7 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:46

L24	33	(1 or 2) and 6 and 9 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:50
L25	8	(1 or 2) and 6 and 14 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 16:59
L26	11	(1 or 2) and 6 and 13 same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating or chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?) not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 17:01
L27	38	(1 or 2) and 6 and 13 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 17:02
L28	7	(1 or 2) and 5 and 13 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 not 27	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 17:02
L29	28	(1 or 2) and 4 and 3 same ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) same (dry or gas or gaseous or vapor or vaporous or plasma) same (fluorine or fluorinate or	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 17:11

		fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 not 27 not 28				
L30	14	(1 or 2) and 3 same ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) near6 (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 not 27 not 28 not 29	US- PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/10/28 17:13

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L31	7603	430/5.ccls.	US- PGPUB; USPAT; UPAD	ADJ	ON	2009/10/28 17:15
L32	213	216/12.ccls. not 31	US- PGPUB; USPAT; UPAD	ADJ	ON	2009/10/28 17:15

L33	36	(31 or 32) and ((mask or photomask or reticle) near3 (phase or phased or phasing or shift or shifter or shifted or shifting) or \$3PSM) and ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) and (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) .clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2009/10/28 17:22
L34	2	((mask or photomask or reticle) and ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) and (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) and (resist or photoresist) and (process or processing or processed or method or manufacture or manufacturing or manufactured or form or formed or forming or made or make or making or step) and (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or	US-PGPUB; USPAT; UPAD	ADJ	ON	2009/10/28 17:35

	attenuated or attenuating) and (auxiliary or assist or assisting or assisted or optical proximity or "OPC" or subresolution or subresolve or subresolved or subresolving or nonresolution or nonresolve or nonresolved or nonresolving or subprint or subprinted or subprinting or nonprint or nonprinted or nonprinting or (sub or non or "not") (resolution or resolve or resolved or resolving or print or printed or printing)).clm. not 33				

10/28/09 5:40:35 PM

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JP PCT) & later similar US.wsp**